CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

QC ABSTRACT

Nameof Work: Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	19.8 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	37.8 Cum	4	4	Concrete Cube Compressive Strength	-
3	M15	19.73 Cum	3	3	Concrete Cube Compressive Strength	-
4	Steel	2.27 Tonne	1	1	-	-
5	Slab (100mm)	220.5 Sqm	1	1	Concrete Core Compressive Strength	-
6	Slab (250mm)	10.8 Sqm	1	1	Concrete Core Compressive Strength	-
7	CC Blocks	396 Sqm	1	1	Compressive Strength & Bulk Density	-

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

CIVIL AIM CONSULTANTS & ENGINEERS ★ Proposal

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date: 20.06.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer**, Vidyaranyapura Sub division, BBMP, Bangalore.
AGENCY	:	**Sri. D V Kumar,** Contractor , Bangalore.
NAME OF THE WORK	:	Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		May - 2022
DATE OF TESTING		18.06.2022 to 20.06.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date :20.06.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.**

Agency : **Sri. D V Kumar, Contractor , Bangalore**

Name of Work : Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Date of Testing :20.06.2022

Material : Sand(Masonry) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	19	1.90	1.90	98.1	90-100
1.18	32	3.20	5.10	94.9	70-100
600 Micron	85	8.50	13.60	86.4	40-100
300 Micron	261	26.10	39.70	60.3	5-70
150 Micron	475	47.50	87.20	12.8	0-15

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Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date :20.06.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.**

Agency : **Sri. D V Kumar, Contractor , Bangalore.**

Name of Work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division,BBMP,Bangalore.

Date of Testing :20.06.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	125	12.50	21.40	78.6	75-100
1.18	182	18.20	39.60	60.4	55-90
600 Micron	165	16.50	56.10	43.9	35-59
300 Micron	250	25.00	81.10	18.9	8-30
150 Micron	136	13.60	94.70	5.3	0-10

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TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.**

Agency : **Sri. D V Kumar, Contractor , Bangalore.**

Name of Work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division,BBMP,Bangalore.

Date of Testing :20.06.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	179	3.6	3.6	96.4	95-100
10	2436	48.7	52.3	47.7	25-55
4.75	1958	39.2	91.5	8.5	0-10

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TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.**

Agency : **Sri. D V Kumar, Contractor , Bangalore.**

Name of Work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division,BBMP,Bangalore.

Date of Testing :20.06.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	182	1.21	1.21	98.79	95-100
20	8230	54.87	56.08	43.92	30-70
10	3265	21.77	77.85	22.15	10-35
4.75	2810	18.73	96.58	3.42	0-5

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Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date : 21.06.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client :**Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.**

Agency **Sri. D V Kumar, Contractor , Bangalore.**

Name of Work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Steel Dia/Length : 8mm, 10mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 21.06.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.396	538	616	1.14	13
2	TMT	10	0.618	546	626	1.15	15.5

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Job No.: CACE /BBMP /DV/W.No-09/2022-23 Date : 21.06.2022

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.**

Agency :**Sri. D V Kumar, Contractor , Bangalore**

Name of the Work :Emergency works in ward no.09 (Vidyaranyapura) Vidyaranyapura sub division, BBMP ,Bangalore.

Date of Testing : 21.06.2022

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	23.6	245.6	4.09	1966.67	Minimum required Compressive Strength of Individual Units 4 N/mm^2
2	Block 2	23.5	243.8	4.06	1958.33	
3	Block 3	23.8	244.8	4.08	1983.33	
4	Block 4	23.7	244.0	4.07	1975.00	

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